# CIVIL TECH LABS

# 5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com


## TEST REPORT

TEST ON AGGREGATES ('AIV' & Combined Flakiness & Elongation Index)

### Wet Mix Macadam

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Kodegahalli Sub Division, BBMP |
| **Name of Work** | Providing wet mix in cut portion roads in DEO-Residency layout in ward no. 07, (Byatarayanapura), Kodegahalli Sub Division. |
| **Agency of the Name** | M/s. Sathy Construction Bangalore. |
| **Date of Testing** | 15/04/2015 |
| **Reference** | **MORTH Table 400-10** |

| Sample No | Aggregate Impact Value 'AIV' in % | Average AIV in % | Remarks |
|---|---|---|---|
| | | | |
| 1 | 20.6 | 21.1 | Satisfactory (As per MORTH for WMM, Maximum allowed AIV is 30 %) |
| | | | |
| 2 | 21.5 | | |

| Test | Result in % | Combined Flakiness & Elongation Index 'C-F&E' in % | Remarks |
|---|---|---|---|
| Flakiness Index | 11.5 | 24.8 | Satisfactory (As per MORTH for WMM, Maximum allowed 'C-F&E' is 30 %) |
| | | | |
| Elongation Index | 13.3 | | |

**Note:**

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# TEST REPORT

## GRADATION TEST ON WET MIX MACADAM

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| **Name of the Agency** | M/s. Sathy Construction Bangalore. |
| **Date of Testing** | 16/04/2015 |
| **Technical Reference** | MORTH Table 400-11 |

| | Sample-1 | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 53 | 100 | **100** | **Satisfy the Requirements** |
| 45 | 95-100 | **97.5** | |
| 22.4 | 60-80 | **72.4** | |
| 11.2 | 40-60 | **53.6** | |
| 4.75 | 25-40 | **32.8** | |
| 2.36 | 15-30 | **25.6** | |
| 0.6 | 8-22 | **17.4** | |
| 0.075 | 0-8 | **6.5** | |

AE-1

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| **Name of the Agency** | M/s. Sathy Construction Bangalore. |
| **Date of Testing** | 16/04/2015 |
| **Technical Reference** | MORTH Table 400-11 |

| | Sample-2 | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 53 | 100 | **100** | **Satisfy the Requirements** |
| 45 | 95-100 | **98.8** | |
| 22.4 | 60-80 | **73.4** | |
| 11.2 | 40-60 | **53.6** | |
| 4.75 | 25-40 | **33.8** | |
| 2.36 | 15-30 | **24.5** | |
| 0.6 | 8-22 | **18.4** | |
| 0.075 | 0-8 | **6.9** | |

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| **Name of the Agency** | M/s. Sathy Construction Bangalore. |
| **Date of Testing** | 16/04/2015 |
| **Technical Reference** | MORTH Table 400-11 |

| | Sample-3 | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 53 | 100 | **100** | **Satisfy the Requirements** |
| 45 | 95-100 | **97.5** | |
| 22.4 | 60-80 | **72.6** | |
| 11.2 | 40-60 | **53.8** | |
| 4.75 | 25-40 | **32.6** | |
| 2.36 | 15-30 | **25.8** | |
| 0.6 | 8-22 | **17.5** | |
| 0.075 | 0-8 | **7.2** | |

AE-1

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| **Name of the Agency** | M/s. Sathy Construction Bangalore. |
| **Date of Testing** | 17/04/2015 |
| **Technical Reference** | MORTH Table 400-11 |

| | **Sample-1** | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 53 | 100 | **100** | **Satisfy the Requirements** |
| 45 | 95-100 | **98.1** | |
| 22.4 | 60-80 | **73.5** | |
| 11.2 | 40-60 | **52.2** | |
| 4.75 | 25-40 | **33.7** | |
| 2.36 | 15-30 | **24.5** | |
| 0.6 | 8-22 | **18.6** | |
| 0.075 | 0-8 | **6.8** | |

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| **Name of the Agency** | M/s. Sathy Construction Bangalore. |
| **Date of Testing** | 17/04/2015 |
| **Technical Reference** | MORTH Table 400-11 |

| | Sample-2 | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 53 | 100 | **100** | **Satisfy the Requirements** |
| 45 | 95-100 | **97.4** | |
| 22.4 | 60-80 | **72.6** | |
| 11.2 | 40-60 | **53.2** | |
| 4.75 | 25-40 | **34.6** | |
| 2.36 | 15-30 | **25.5** | |
| 0.6 | 8-22 | **17.4** | |
| 0.075 | 0-8 | **6.6** | |

A2-1

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| **Name of Work** | Providing wet mix in cut portion roads in DEO-Residency layout in ward no. 07, (Byatarayanapura), Kodegahalli Sub Division. |
| **Name of the Agency** | M/s. Sathy Construction Bangalore. |
| **Date of Testing** | 17/04/2015 |
| **Technical Reference** | MORTH Table 400-11 |

| | Sample-3 | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 53 | 100 | **100** | **Satisfy the Requirements** |
| 45 | 95-100 | **97.8** | |
| 22.4 | 60-80 | **73.4** | |
| 11.2 | 40-60 | **52.6** | |
| 4.75 | 25-40 | **32.5** | |
| 2.36 | 15-30 | **26.5** | |
| 0.6 | 8-22 | **18.4** | |
| 0.075 | 0-8 | **6.7** | |

AE-7

2

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| **Date of Testing** | 15/04/2015 |
| **Technical Reference** | MORTH Table 400-11 |

| | Sample-1 | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 53 | 100 | **100** | **Satisfy the Requirements** |
| 45 | 95-100 | **98.4** | |
| 22.4 | 60-80 | **73.4** | |
| 11.2 | 40-60 | **52.6** | |
| 4.75 | 25-40 | **33.2** | |
| 2.36 | 15-30 | **24.6** | |
| 0.6 | 8-22 | **18.4** | |
| 0.075 | 0-8 | **7.1** | |

AE-1

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| **Date of Testing** | 15/04/2015 |
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| | Sample-2 | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 53 | 100 | **100** | **Satisfy the Requirements** |
| 45 | 95-100 | **98.4** | |
| 22.4 | 60-80 | **72.4** | |
| 11.2 | 40-60 | **53.6** | |
| 4.75 | 25-40 | **32.8** | |
| 2.36 | 15-30 | **23.6** | |
| 0.6 | 8-22 | **17.7** | |
| 0.075 | 0-8 | **6.9** | |

A2.7

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| | Sample-3 | | |
|---|---|---|---|
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| 45 | 95-100 | **97.7** | |
| 22.4 | 60-80 | **73.4** | |
| 11.2 | 40-60 | **54.2** | |
| 4.75 | 25-40 | **33.6** | |
| 2.36 | 15-30 | **24.5** | |
| 0.6 | 8-22 | **18.4** | |
| 0.075 | 0-8 | **6.9** | |

AE.1
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